Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 02/01/2020**

: Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

Reference : EE(Project)/YnkZone/WO/68/2019-20

: 07-12-19

: Drain Side Filling Concrete

Size : 150X150X150 mm

Age : M20 / 28 Days Compressive Strength

BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 02/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	151.68 X 149.60 X 150.01	22690	**8.947**	526.1	23.2	22.9
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	150.70 X 149.96 X 149.34	22598	**8.689**	503.5	22.3	
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	151.62 X 150.07 X 149.38	22753	**8.703**	530.9	23.3	

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R KARTHIK RECHAN
Authorized Signatory
Quality Manager

****End of Report****

Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 12/12/2019**

Name : Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

Reference : EE(Project)/YnkZone/WO/68/2019-20

Receipt : 07-12-19

ID : Drain Side Filling Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

: 12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Filling Concrete	M20	05/12/2019	12/12/2019	151.98 X 149.39 X 151.51	22704	**8.616**	427.2	18.8	18.5
Drain Side Filling Concrete	M20	05/12/2019	12/12/2019	149.92 X 150.88 X 149.41	22619	**8.045**	411.6	18.2	
Drain Side Filling Concrete	M20	05/12/2019	12/12/2019	150.91 X 150.53 X 151.70	22718	**8.556**	422.1	18.6	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

	:	**CP-2020-02-28-105** **Date: 02/01/2020**
Name	:	Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, KRIDL, Bangalore.
's Reference	:	EE(Project)/YnkZone/WO/68/2019-20
Receipt	:	07-12-19
ID	:	Drain Side Filling Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	02/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	151.85 X 150.38 X 151.10	22834	**8.947**	546.4	23.9	23.4
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	150.45 X 149.09 X 151.88	22431	**8.689**	514.0	22.9	
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	151.99 X 151.45 X 149.44	23018	**8.703**	539.8	23.5	

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Format No: CP/TF/01

TEST REPORT OF CEMENT CONCRETE CUBES

: **CP-2020-02-28-105** **Date: 12/12/2019**

Name : Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

: Executive Engineer, KRIDL, Bangalore.

's Reference : EE(Project)/YnkZone/WO/68/2019-20

Receipt : 07-12-19

ID : Drain Side Filling Concrete

Type /Size : 150X150X150 mm

grade/Age : M20 / 7 Days Compressive Strength

to BIS codes : IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5

Test : 12/12/2019

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Filling Concrete	M20	05/12/2019	12/12/2019	150.51 X 150.04 X 149.89	22582	**8.616**	408.9	18.1	18.6
Drain Side Filling Concrete	M20	05/12/2019	12/12/2019	151.18 X 150.00 X 149.55	22676	**8.045**	430.6	19.0	
Drain Side Filling Concrete	M20	05/12/2019	12/12/2019	150.57 X 150.95 X 151.06	22728	**8.556**	427.9	18.8	

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TEST REPORT OF CEMENT CONCRETE CUBES

Date: 02/01/2020

	:	**CP-2020-02-28-105**
Name	:	Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division
	:	Executive Engineer, KRIDL, Bangalore.
's Reference	:	EE(Project)/YnkZone/WO/68/2019-20
Receipt	:	07-12-19
ID	:	Drain Side Filling Concrete
Type /Size	:	150X150X150 mm
grade/Age	:	M20 / 28 Days Compressive Strength
to BIS codes	:	IS: 516 - 1959 Methods of Tests for Strength of Concrete Cl.5
Test	:	02/01/2020

Identification Mark	Grade of concrete	Date of Casting	Date of Testing	Dimension of the Specimen (mm)	Cross sectional area (Sq.mm)	Weight of the sample (kg)	Failure Load (KN)	Compressive strength (N/mm^2)	Average Compressive Strength (N/mm^2)
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	150.96 X 149.44 X 149.89	22559	**8.947**	529.0	23.4	23.1
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	149.10 X 151.04 X 150.48	22519	**8.689**	502.8	22.3	
Drain Side Filling Concrete	M20	05/12/2019	02/01/2020	150.52 X 150.34 X 150.25	22630	**8.703**	532.6	23.5	

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TEST RESULTS OF GRADATION FOR WMM

ID	:	**CP-RW-2020-02-28-105** **Date: 28-11-19**
ect Name	:	Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division
ncy	:	Executive Engineer, KRIDL, Bangalore.
mer Reference	:	EE(Project)/YnkZone/WO/68/2019-20
of Receipt	:	26-11-19
of Mix	:	WMM (Wet Mix Macadam)
of test	:	26-11-19
Dry Weight	:	11000 Grams

Sieve Size(mm)	Weight Retained (gm)	Cumulative Weight Retained (gm)	% Cumulative Weight Retained	% Passing	Spec.I.Vide Table 400.13 MORTH Specification
53	0	0	0.0	100.0	100
45	315	315	2.9	97.1	95-100
22.4	2259	2574	23.4	76.6	60-80
11.2	2179	4753	43.2	56.8	40-60
4.75	2251	7004	63.7	36.3	25-40
2.36	1621	8625	78.4	21.6	15-30
0.6	623	9248	84.1	15.9	8-22
0.075	1338	10586	96.2	3.8	0-5

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TEST REPORT OF AGGEGRATE IMPACT VALUE
IS: 2386 Part IV

ID : **CP-RW-2020-02-28-105** **Date: 28-11-19**

ject Name : Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division

ncy : Executive Engineer, KRIDL, Bangalore.

tomer Reference : EE(Project)/YnkZone/WO/68/2019-20

e of Receipt : 26-11-19

e of Mix : Coarse Aggregate for WMM (Wet Mix Macadam)

e of test : 26-11-19

.No	Particulars of observations	Index	TEST 1	TEST 2
1	Total weight of the surface dry sample sample (passing 12.5 mm and retained on 10mm sieve)	A	300.2	300.2
2	Weight of fraction passing 2.36mm sieve After giving 15 blows	B	73.9	74.0
3	weight of fraction retained 2.36mm sieve After giving 15 blows	C	225.9	225.8
4	Total weight of (B+C) is less than the initial weight (Weight A) by more than one gram the result shall be discarded and a fresh test made.	A-(B+C)	0.4	0.4
5	Aggregate impact value	(B/A)*100	24.6	24.7
6	Aggregate impact value (Mean of two tests)	Pecentage	24.6	

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ETERMINATION OF FLAKINESS INDEX AND ELONGATION INDEX OF COARSE AGGREGATE(IS 2386 (Part 1) 1963 (RA 2007)

b ID	:	**CP-RW-2020-02-28-105**	**Date: 28-11-19**
ject Name	:	Improvements to CC Roads and CC Drains works at Vinayakanagara in Ward No.05 Byatarayanapura Sub Division	
ncy	:	Executive Engineer, KRIDL, Bangalore.	
tomer Reference	:	EE(Project)/YnkZone/WO/68/2019-20	
e of Receipt	:	26-11-19	
e of Mix	:	Coarse Aggregate for WMM (Wet Mix Macadam)	
e of test	:	26-11-19	

lt:

Index	Percentage of Flakiness and Elongation Index	Secified limits as per MORTH specification table 400-12
Flakiness Index	12.8%	Combined Flakiness & Elongation Index for WMM is Maximum 35%
Elongation Index	12.5%	
bined Flakiness and Elongation Index for WMM	25.3%	

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Quality Manager

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